CPC COOPERATIVE PATENT CLASSIFICATION

B03B SEPARATING SOLID MATERIALS USING LIQUIDS OR USING

PNEUMATIC TABLES OR JIGS (removing fluids from solids B01D; magnetic or electrostatic separation of solid materials from solid materials or fluids, separation by high voltage electric fields **B03C**; flotation differential sedimentation **B03D**; separating by dry methods <u>B07</u>; screening or sifting <u>B07B</u>; by picking <u>B07C</u>; separating peculiar to particular materials and provided for in other single classes, see the relevant classes)

Guide heading:

B03B 4/04

B03B 1/00 Conditioning for facilitating separation by altering physical properties of the matter to be treated (pre-treatment of ores in general C22B) { Pretreatment prior to magnetic

separation B03C 1/00 }

B03B 1/02 Preparatory heating

B03B 1/04 by additives

B03B 1/06 by varying ambient atmospheric pressure

B03B 4/00 Separating by pneumatic tables or by pneumatic jigs (sink-float separation using dry

heavy media B03B 5/46)

NOTE

Group B03B 4/005 takes precedence over groups B03B 4/02 to B03B 4/065

B03B 4/005 { the currents being pulsating, e.g. pneumatic jigs; combination of continuous and pulsating currents }

B03B 4/02 using swinging or shaking tables

using rotary tables or tables formed by travelling belts (separating solids from solids

using gas currents and revolving drums B07B 4/06)

B03B 4/06 using fixed and inclined tables; { using stationary pneumatic tables, e.g. fluidised beds

B03B 4/065 { having inclined portions }

B03B 5/00 Washing granular, powdered or lumpy materials

Wet separating (separating by pneumatic tables or by pneumatic jigs B03B 4/00)

B03B 5/02 using shaken, pulsated or stirred beds as the principal means of separation (B03B

5/28, <u>B03B 5/48</u> take precedence)

B03B 5/04 on shaking tables (on vanners B03B 5/08)

B03B 5/06 Constructional details of shaking tables, e.g. riffling . . .

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B03B 5/08
                             on vanners
B03B 5/10
                             on jigs
B03B 5/12
                                using pulses generated mechanically in fluid
B03B 5/14
                                   Plunger jigs
B03B 5/16
                                   Diaphragm jigs
B03B 5/18
                                   Moving-sieve jigs
B03B 5/20
                                using pulses generated by air injection
B03B 5/22
                                using pulses generated by liquid injection
B03B 5/24
                                Constructional details of jigs, e.g. pulse control devices
                      . . .
B03B 5/26
                             in sluices
                      . .
B03B 5/28
                         by sink-float separation
B03B 5/30
                             using heavy liquids or suspensions
B03B 5/32
                                using centrifugal force (centrifuges B04B; cyclones B04C)
B03B 5/34
                                   Applications of hydrocyclones
B03B 5/36
                                Devices therefor, other than using centrifugal force (jigs <u>B03B 5/10</u>)
B03B 5/38
                                   of conical receptacle type
B03B 5/40
                                   of trough type
B03B 5/42
                                   of drum of lifting wheel type
B03B 5/44
                                Application of particular media therefor
B03B 5/442
                                   { composition of heavy media }
B03B 5/445
                                      { composition of dry heavy media }
B03B 5/447
                                   { recovery of heavy media }
B03B 5/46
                             using dry heavy media
                             Devices therefor
B03B 5/48
                         by mechanical classifiers (sink-float separation aspects B03B 5/28)
B03B 5/50
                             Rake classifiers
B03B 5/52
                             Spiral classifiers
B03B 5/54
                             Drag classifiers
B03B 5/56
                             Drum classifiers
B03B 5/58
                             Bowl classifiers
B03B 5/60
                         by non-mechanical classifiers, e.g. slime tanks (using shaken, pulsated or stirred
                         beds as the principal means of separation B03B 5/02; hydraulic classifiers B03B 5/62
                          ; water impulse classifiers B03B 5/68)
B03B 5/62
                         by hydraulic classifiers, e.g. of launder, tank, spiral or helical chute concentrator type
B03B 5/623
                             { Upward current classifiers }
B03B 5/626
                             { Helical separators }
B03B 5/64
                             of the free settling type
B03B 5/66
                             of the hindered settling type
B03B 5/68
                         by water impulse (shaking tables <u>B03B 5/04</u>; jigs <u>B03B 5/10</u>; hydraulic classifiers
                         B03B 5/62)
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B03B 5/70	on tables or strakes
B03B 5/72	which are movable
B03B 5/74	Revolving tables
B03B 7/00	Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage
B03B 9/00	General arrangement of separating plant, e.g. flow sheets
B03B 9/005	. { specially adapted for coal }
B03B 9/02	. specially adapted for oil-sand, oil-chalk, oil-shales, ozokerite, bitumen, or the like
B03B 9/04	. specially adapted for furnace residues, smeltings, or foundry slags
B03B 9/06	. specially adapted for refuse
B03B 9/061	{ the refuse being industrial }
B03B 9/062	{ the refuse being glass }
B03B 9/063	{ the refuse being concrete slurry }
B03B 9/065	<pre>{ the refuse being building rubble }</pre>
B03B 11/00	Feed or discharge devices integral with washing or wet-separating equipment (filling or emptying devices per se $\underline{B65G}$ 65/30)
B03B 13/00	Control arrangements specially adapted for wet-separating apparatus or for dressing plant, using physical effects (detecting, measuring, or analysing devices G01; control devices in general G05)
B03B 13/005	. { Methods or arrangements for controlling the physical properties of heavy media (in relation with groups <u>B03B 5/30</u> to <u>B03B 5/46</u>) , e.g. density, concentration, viscosity }
B03B 13/02	. using optical effects
B03B 13/04	. using electrical or electromagnetic effects
B03B 13/06	. using absorption or reflection of radioactive emanation
Guide heading:	
B03B 2005/00	Washing granular, powdered or lumpy materials Wet separating (separating by pneumatic tables or by pneumatic jigs <u>B03B 4/00</u>)
B03B 2005/28	. by sink-float separation
B03B 2005/30	using heavy liquids or suspensions
B03B 2005/36	Devices therefor, other than using centrifugal force (jigs <u>B03B 5/10</u>)
B03B 2005/40	of trough type
111 1000, 10	

B03B 2005/405	using horizontal currents
B03B 2009/00	General arrangement of separating plant, e.g. flow sheets
B03B 2009/06 B03B 2009/066	specially adapted for refusethe refuse being batteries
B03B 2009/067 B03B 2009/068	the refuse being carpetsSpecific treatment of shredder light fraction
B03B 2011/00	Feed or discharge devices integral with washing or wet-separating equipment (filling or emptying devices per se $\underline{B65G}$ $\underline{65/30}$)
B03B 2011/002	. Rotary feeding devices
B03B 2011/004	. Lifting wheel dischargers
B03B 2011/006	. Scraper dischargers
B03B 2011/008	. Screw dischargers